

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE MODIFICATIONS TO THE TEMPORARY SIGNAL AT THE INTERSECTION OF MD 24 AND SB I-95 OFF RAMP (RAMP J) / ON RAMP (RAMP K) IN HARFORD COUNTY FOR MOT STAGE 4.

INTERSECTION OPERATION

THE EXISTING BASE MOUNTED CABINET SHALL BE USED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A SEMI-ACTUATED MODE USING 3 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: (410) 321-2781  
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761  
MR. MIKCHAE PASQUARIELLO, UTILITY ENGINEER  
PHONE: (410) 321-2841  
MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION  
PHONE: (410) 787-7630  
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS CHIEF  
PHONE: (410) 787-7650  
MR. EUGENE BAILEY, SIGN OPERATIONS MANAGER  
PHONE: (410) 787-7676

MS. ROXANE MUKAI, TRAFFIC MANAGER  
MARYLAND TRANSPORTATION AUTHORITY  
PHONE: (410) 288-8484

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
973023	SHEET ALUMINUM SIGNS CONSISTING OF R3-5(L) (30"x36") MAST ARM MOUNT M95-1 (108"x36") MAST ARM MOUNT R3-5(R) (30"x36") MAST ARM MOUNT R3-3(2) (30"x30") MAST ARM MOUNT	EA EA EA EA	1 1 1 1

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	2
585624	24 INCH HEAT APPLIED WHITE PERM. PREF. THERMO. PAVEMENT MARKING	LF	100
800000	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT	LS	1
800000	RELOCATE EXISTING VIDEO DETECTION CAMERA	EA	2
800000	CONTROL CABLE 200 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
800000	STEEL POLE WITH A SINGLE 74 FOOT MAST ARM (SEE NOTE BELOW)	EA	1
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	8
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	320
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	260
805105	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	65
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	1580
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	20
810550	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE	EA	3
811001	ELECTRICAL HANDHOLE	EA	4
813015	INSTALL OVERHEAD SIGN	SF	78
818052	STEEL POLE WITH SINGLE 70 FOOT MAST ARM	EA	1
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	1
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	1
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	23
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	60
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	800
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	170
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1

C.EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLY DRIVE, HANOVER , MARYLAND 21076.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

SPECIAL NOTE FOR THE STEEL POLE WITH 74 FOOT MAST ARM

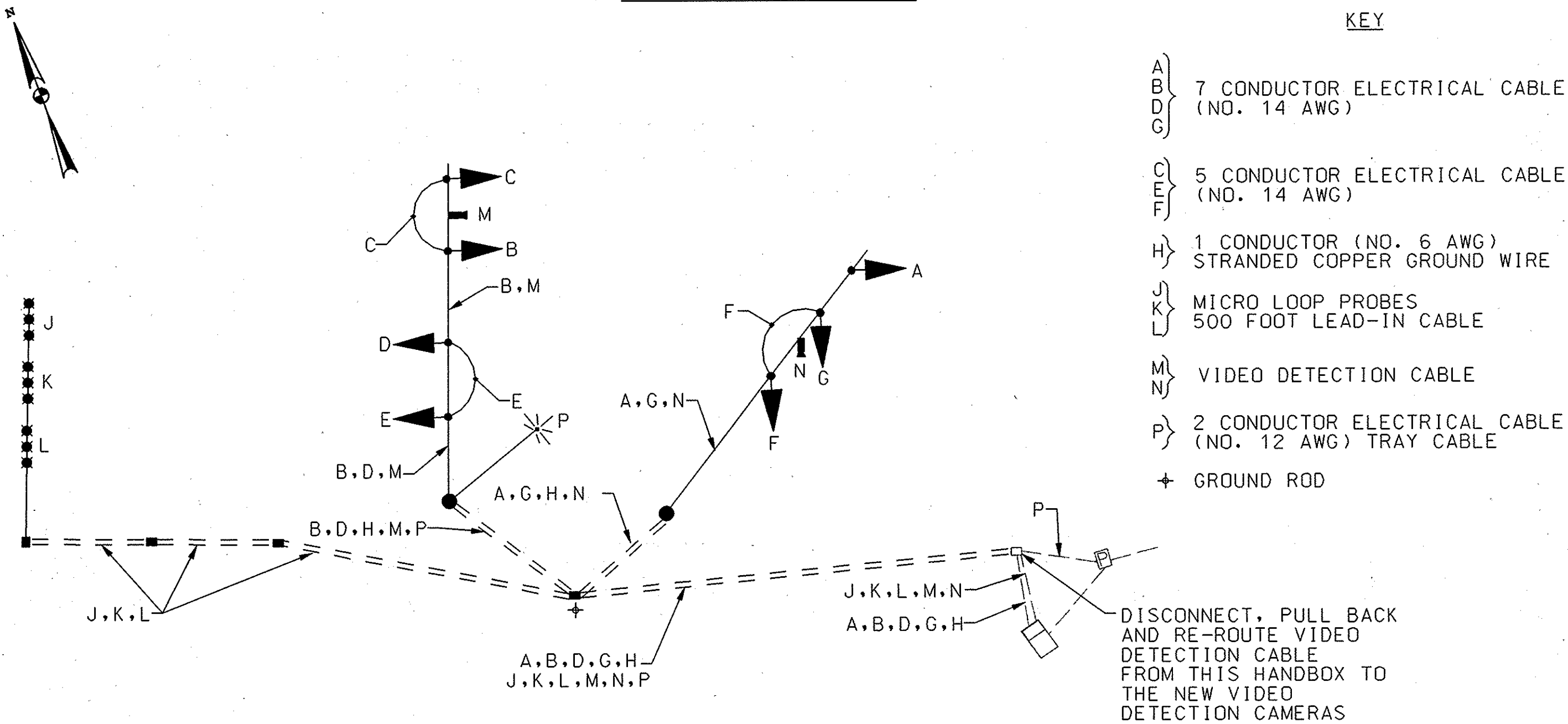
THE SINGLE MAST ARM POLE SIZE SHALL BE FABRICATED ACCORDING TO THE 70FT. ARM SIZE IN MD STANDARD NO. 818.06 WITH THE FOLLOWING MODIFICATIONS TO THE POLE SIZE:  
- THE OUTSIDE DIAMETER AT THE BASE OF PLATE = 16.5 IN.  
- THE OUTSIDE DIAMETER AT THE TOP OF POLE = 12.72 IN.

THE 74 FOOT MAST ARM POLE SHALL BE FABRICATED ACCORDING TO THE 70 FT. ARM SIZE IN MD STANDARD NO. 818.13 WITH THE FOLLOWING MODIFICATIONS TO THE ARM SIZE:

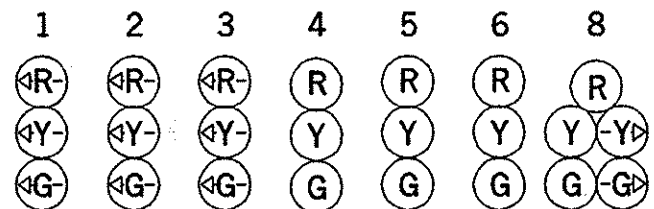
ARM SECTION: WALL THICKNESS X OUTSIDE DIAMETER AT FLANGE X OUTSIDE DIAMETER AT ARM END X SECTION LENGTH

- BUTT: THREE (3) GAUGE X 14 IN. X 9.1 IN. X 35 FT.- 0 IN.  
- EXT. 2: THREE (3) GAUGE X 9.85 IN. X 6.11 IN. X 26 FT.- 9 IN.  
- EXT. 2: THREE (3) GAUGE X 6.68 IN. X 4.51 IN. X 15 FT.- 6 IN.

WIRING DIAGRAM



PHASE CHART



PHASE 5	1	2	3	4	5	6	8
5 CHANGE	Y	Y	Y	Y	Y	Y	Y
PHASE 6	R	R	R	G	G	R	R
6 CHANGE	Y	Y	Y	Y	Y	Y	Y
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R

ULTIMATE



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 24 AT SOUTHBOUND I-95 OFF-RAMP (RAMP J)/ON-RAMP (RAMP K)  
IMPROVEMENTS TO I-95 AND MD 24 INTERCHANGE

ABINGDON, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 06/20/06 CONTRACT NO. KH-271-000-002

DESIGNED BY A. MOHAMMEDSDU COUNTY HARFORD

DRAWN BY M. RAFFLE LOGMILE

CHECKED BY K. RINKER TMS NO.

FAP NO. NONE TOD NO.

TS NO. DRAWING PSG OF N006 SHEET NO. 676 OF 889



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